

HALLIBURTON

iCem[®] Service

K P KAUFFMAN CO INC-EBUS

For: RICK RAMOS

Date: Friday, October 11, 2019

UPRR 43 PAN AM I 19

KPK UPRR 43 PAN AM I 19 PTA DAY 1

Job Date: Friday, October 11, 2019

Sincerely,

NICK KORNAFEL & CREW

2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DS Pump Press (psi)	Comb Pump Rate (bbl/min)	DH Density (ppg)	Pump Stg Tot (bbl)	Comments
Event	1	Call Out	Call Out	10/11/2019	04:00:00	USER					CREW CALLED OUT AT 04:00, REQUESTED ON LOCATION 09:00. CREW PICKED UP CEMENT, CHEMICALS, AND PLUG CONTAINER FROM FT. LUPTON, CO. BULK 660 11527037 AND PUMP 11826999
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	10/11/2019	07:15:00	USER					CREW DISCUSSED ROUTES, HAZARDS, AND COMMUNICATION WITH CREW.
Event	3	Crew Leave Yard	Crew Leave Yard	10/11/2019	07:30:00	USER					STARTED JOURNEY MANAGEMENT.
Event	4	Arrive at Location from Service Center	Arrive at Location from Service Center	10/11/2019	08:20:00	USER					END JOURNEY MANAGEMENT. MEET WITH CO. MAN TO DISCUSS JOB; PLUG #1 PERFS AT 2,500', RETAINER AT 2,450', CUSTOMER REQUESTS 40 SK PUMPED INTO PERFS AND LEAVE 50FT ON THE RETAINER, PLUG #2 PERFS AT 725', RETAINER AT 650' CUSTOMER REQUESTS CEMENT TO SURFACE.
Event	5	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	10/11/2019	08:30:00	USER					HAZARD HUNT. DISCUSSED POSSIBLE HAZARDS ASSOCIATED WITH LOCATION, RIG UP, AND WEATHER.

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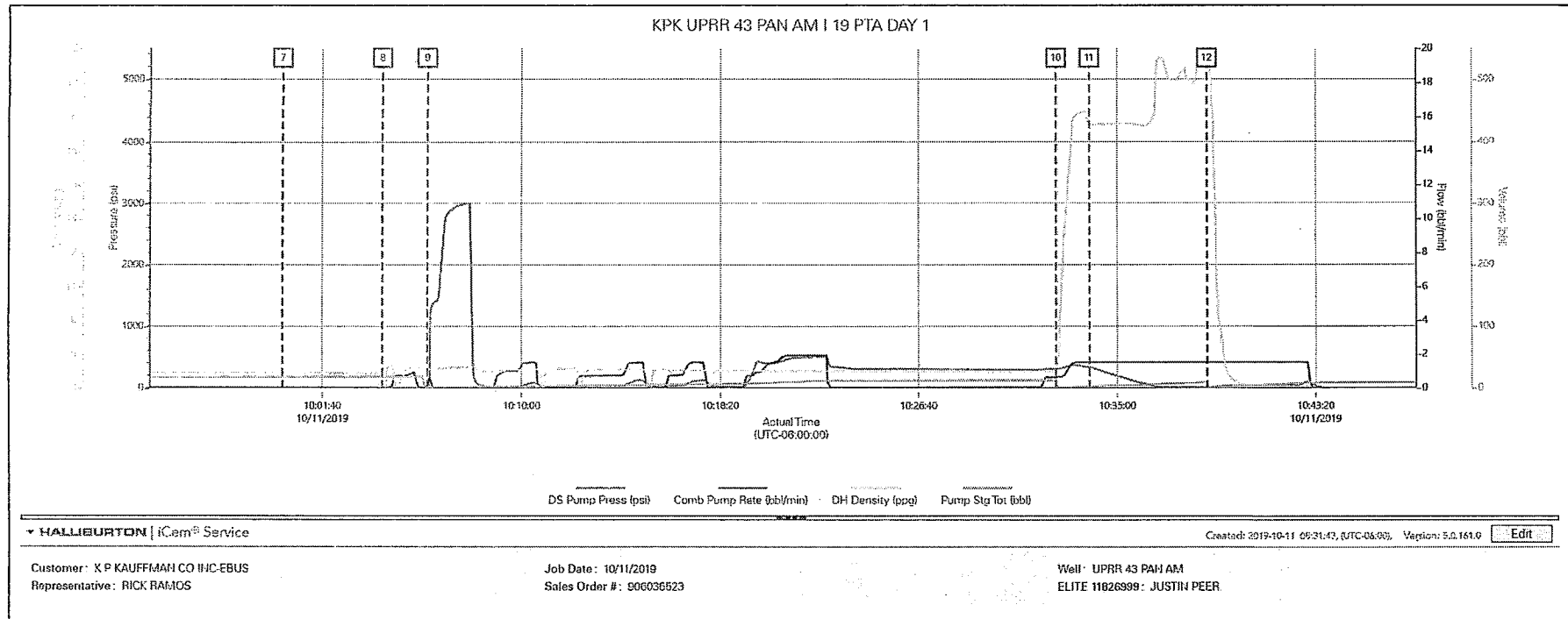
(v. 5.0.161.0)

Event	6	Rig-Up Equipment	Rig-Up Equipment	10/11/2019	08:40:00	USER						CREW STAGED EQUIPMENT, RIGGED UP BULK, IRON, AND WATER HOSES TO PERFORM JOB.
Event	7	Pre-Job Safety Meeting	Pre-Job Safety Meeting	10/11/2019	10:00:00	USER	-17.00	0.00	8.42	17.00		SAFETY MEETING WITH HALLIBURTON, AND RIG PERSONNEL. CREW COMMUNICATED POTENTIAL SAFETY HAZARDS, AND JOB DETAILS.
Event	8	Start Job	Start Job	10/11/2019	10:04:11	COM11	-19.00	0.00	0.78	17.00		BEGIN RECORDING JOB DATA
Event	9	Test Lines	Test Lines	10/11/2019	10:06:03	COM11	-18.00	0.00	8.54	0.00		TEST ELECTRONIC KICKOUTS AT 500 PSI, PRESSURE TESTED IRON TO 3,000 PSI, PRESSURE HELD WITH NO LEAKS
Event	10	Pump Lead Cement	Pump Lead Cement	10/11/2019	10:32:26	COM11	316.00	0.70	8.54	0.00		PUMPED 40 SKS OF CEMENT AT 15.8 PPG, 1.15 FT3/SK, 5 GAL/SK AT 2 BBL/MIN AT 500PSI
Event	11	Check Weight	Check Weight	10/11/2019	10:33:50	COM11	327.00	1.50	15.76	1.70		DENSITY VERIFIED BY PRESSURIZED MUD SCALES
Event	12	Pump Displacement	Pump Displacement	10/11/2019	10:38:46	COM11	3.00	1.50	18.41	8.90		PUMPED 8.5 BBLs OF FRESH WATER DISPLACEMENT
Event	13	End Job	End Job	10/11/2019	11:01:26	COM11	18.00	0.00	8.07	62.10		STOP RECORDING JOB DATA
Event	14	Start Job	Start Job	10/11/2019	13:11:20	COM11	16.00	0.00	7.94	0.00		BEGIN RECORDING JOB DATA
Event	15	Pump Lead Cement	Pump Lead Cement	10/11/2019	13:28:54	COM11	10.00	0.00	7.91	0.00		PUMPED 210 SKS OF CEMENT AT 15.8 PPG, 1.15 FT3/SK, 5 GAL/SK AT 2 BBL/MIN 100 PSI.

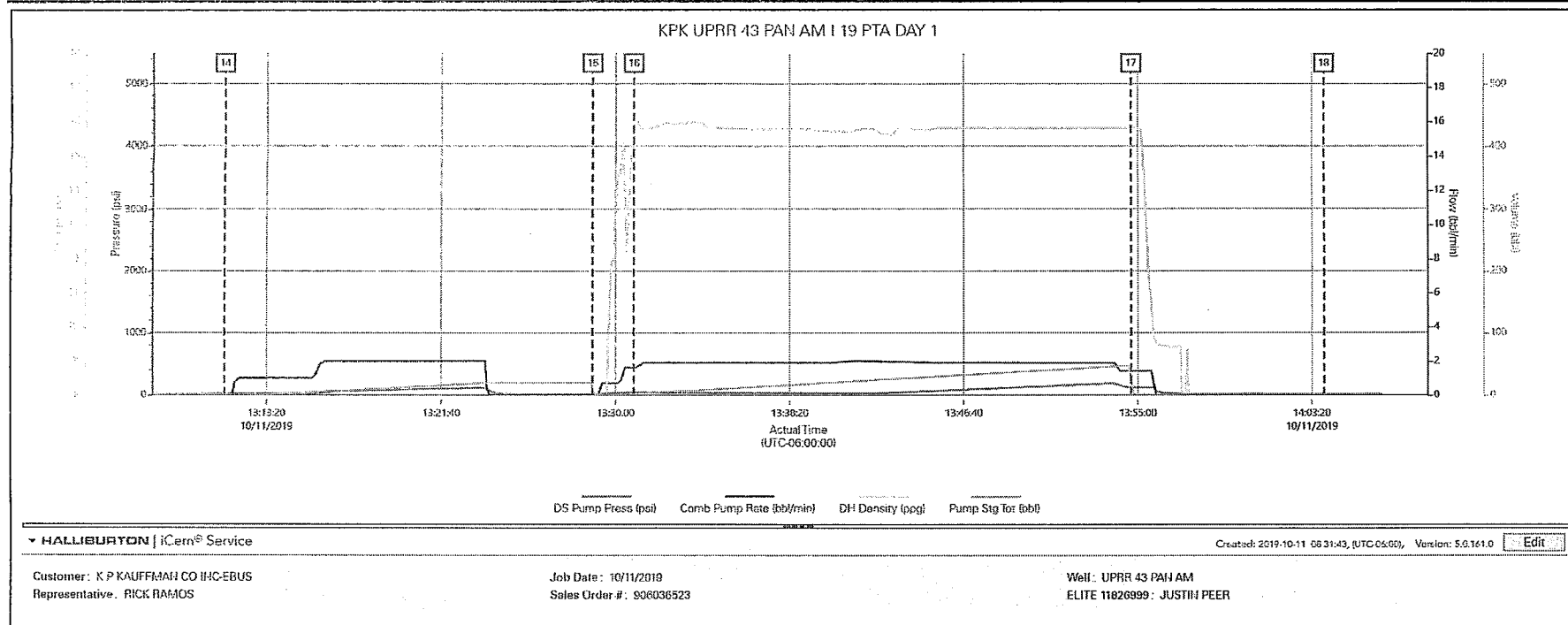
Event	16	Check Weight	Check Weight	10/11/2019	13:30:52	COM11	32.00	1.60	15.26	1.70	DENSITY VERIFIED BY PRESSURIZED MUD SCALES
Event	17	Pump Displacement	Pump Displacement	10/11/2019	13:54:41	COM11	122.00	1.40	15.79	0.00	PUMPED 1.5 BBLS OF FRESH WATER DISPLACEMENT
Event	18	Shutdown	Shutdown	10/11/2019	14:03:55	COM11	17.00	0.00	-0.27	1.50	SHUTDOWN FOR RIG TO PULL OFF THE BOP
Event	19	Pump Lead Cement	Pump Lead Cement	10/11/2019	14:42:49	COM11	29.00	1.40	7.48	1.60	BROUGHT CEMENT TO SURFACE.
Event	20	End Job	End Job	10/11/2019	15:00:00	USER	15.00	0.00	16.72	5.20	STOP RECORDING JOB DATA.
Event	21	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	10/11/2019	15:05:00	USER	12.00	0.00	17.05	5.20	DISCUSSED POSSIBLE HAZARDS ASSOCIATED WITH WEATHER, LOCATION AND RIGGING DOWN IRON AND HOSES.
Event	22	Rig-Down Completed	Rig-Down Completed	10/11/2019	15:45:00	USER					ALL HALLIBURTON ITEMS WERE STOWED FOR TRAVEL, AND LOCATION WAS CLEAN.
Event	23	Safety Meeting - Departing Location	Safety Meeting - Departing Location	10/11/2019	16:00:00	USER					CREW DISCUSSED ROUTES HAZARDS AND COMMUNICATION WITH CREW.

3.0 Attachments

3.1 KPK UPRR 43 PAN AM I 19 PTA DAY 1 PLUG 1-Custom Results.png



3.2 KPK UPRR 43 PAN AM I 19 PTA DAY 1 PLUG 2-Custom Results.png



Summary Report


Crew: _____
Job Start Date: 10/11/2019 10:00 AM

Sales Order #: 0906036523
WO #: 0906036523
PO #: NA
AFE #:

Customer: K P KAUFFMAN CO INC-EBUS
UWI / API Number:
Well Name: UPRR 43 PAN AM I #19,WELD
Well No: 2366436

Field:
County/Parish: WELD
State: COLORADO
Latitude:
Longitude:
Sect / Twn / Rng: //

Job Type: CMT VIA ANNULUS
BOM
Service Supervisor: Nikolaus Kornafel
Cust Rep Name: RICK RAMOS
Cust Rep Phone #:

Remarks:		
The Information Stated Herein Is Correct	Customer Representative Signature 	Date 10/11/19
	Customer Representative Printed Name Rick Ramos	

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 303209		Ship To #: 2366436		Quote #:		Sales Order #: 0906036523				
Customer: K P KAUFFMAN CO INC-EBUS				Customer Rep: RICK RAMOS						
Well Name: UPRR 43 PAN AM I #19,WELD			Well #: 2366436			API/UWI #:				
Field:		City (SAP): DACONO		County/Parish: WELD			State: COLORADO			
Legal Description:										
Contractor: UNKNOWN				Rig/Platform Name/Num: WORKOVER RIG						
Job BOM:										
Well Type: GAS										
Sales Person: HALAMERICA\HX37727				Srv Supervisor: Nikolaus Kornafel						
Job										
Formation Name										
Formation Depth (MD)		Top		Bottom						
Form Type				BHST						
Job depth MD		2500 ft		Job Depth TVD						
Water Depth				Wk Ht Above Floor						
Perforation Depth (MD)		From		To						
Well Data										
Description	New / Used	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Tubing		2.375	1.995	4.7		J-55	0	4625		0
Casing		4.5	4.052	10.5		N-80	0	4629		0
Tools and Accessories										
Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make	
Guide Shoe	4.5			4629		Top Plug	4.5		HES	
Float Shoe	4.5					Bottom Plug	4.5		HES	
Float Collar	4.5					SSR plug set	4.5		HES	
Insert Float	4.5					Plug Container	4.5		HES	
Stage Tool	4.5					Centralizers	4.5		HES	
Fluid Data										
Stage/Plug #: 1										
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
2	PLUG 1	G CEMENT	40	sack	15.8	1.15	4.99	2	200	
Fluid #										
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
3	PLUG 1	HALCEM (TM) SYSTEM	210	sack	15.8	1.15	4.99	2	1,050	
Cement Left in Pipe										
Amount		ft		Reason				Shoe Joint		

Cementing Job Summary

Mix Water:	pH 7	Mix Water Chloride:	0 ppm	Mix Water Temperature:	54 °F
Cement Temperature:	N/A	Plug Displaced by:	8.33 lb/gal	Disp. Temperature:	54 °F
Plug Bumped?	N/A	Bump Pressure:	N/A	Floats Held?	N/A
Cement Returns:	0 bbl	Returns Density:	N/A	Returns Temperature:	N/A

Comment PLUG 1: ESTABLISHED CIRCULATION THEN PUMPED 40 SKS OF CEMENT INTO THE PERFS AND THEN STUNG OUT AND LEFT 50 FT OF CEMENT ON TOP OF THE RETAINER AT 2,450 FT
PLUG 2: ESTABLISHED CIRCULATION AND THEN PUMPED AN ESTIMATED 210 SKS OF CEMENT INTO THE PERFS AT 725 FT, GOT CEMENT TO SURFACE AND THEN THE RIG PULLED TUBING. ONE THE BOP WAS OFF AND THE TUBING WAS OUT OF THE HOLE WE BROUGHT CEMENT TO SURFACE TO FINISH THE PLUG.